

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S23	1072	501/66,67,68,69,70.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 O" or "Na.sub.2O" or sodio or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 O" or "K.sub.2O" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 O" or "Li.sub.2O" or Lithia or lithium) and ((TiO2 or "TiO.sub.2" or TiO2 or "TiO.sub.2" or titania or titanium) or (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia) or ("Ln.sub.2 O.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2 O.sub.3" or Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2O.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or tantalum))	US-PGPUB; USPAT	OR	ON	2009/03/18 13:12
S24	1628	501/66,67,68,69,70.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or alumina or aluminum) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 O" or "Na.sub.2O" or sodio or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 O" or "K.sub.2O" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 O" or "Li.sub.2O" or Lithia or lithium))	US-PGPUB; USPAT	OR	ON	2009/03/18 13:12

S25	429	501/66,67,68,69,70.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 0.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 0" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K20 or "K sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li20 or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium)) and ((TiO2 or "TiO.sub.2" or TiO2 or "Ti0.sub.2" or titania or titanium) or (ZrO2 or ""ZrO.sub.2"" or ZrO2 or ""Zr0.sub.2"" or zirconium or zirconia) or ("Ln.sub.2 0.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2 O.sub.3" or Y2O3 or "Y.sub.2 0.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb205 or "Nb.sub.2 0.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta205 or "Ta.sub.2 0.sub.5" or "Ta.sub.20.sub.5" or tantalum) and substrate	US-PGPUB; USPAT	OR	ON	2009/03/18 13:12
S26	56	501/66,67,68,69,70.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "Si0.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 0.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na20 or "Na.sub.2 0" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K20 or "K.sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li20 or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium)) and ((TiO2 or "TiO.sub.2" or TiO2 or "Ti0.sub.2" or titania or titanium) or (ZrO2 or ""ZrO.sub.2"" or ZrO2 or ""Zr0.sub.2"" or zirconium or zirconia) or ("Ln.sub.2 0.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2 O.sub.3" or Y2O3 or "Y.sub.2 0.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb205 or "Nb.sub.2 0.sub.5" or "Nb.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:12

		sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 0.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and (chemically adj strengthened)				
S27	56	501/66,67,68,69,70.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 0.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 0" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium) and ((TiO2 or "TiO.sub.2" or TiO2 or "TiO.sub.2" or titania or titanium) or (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia) or ("Ln.sub.2 0.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2 0.sub.3" or Y2O3 or "Y.sub.2 0.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb2O5 or "Nb.sub.2 0.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 0.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and (chemically adj strength \$5)	US-PGPUB; USPAT	OR	ON	2009/03/18 13:12
S28	140	kawai-hideki.in.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:13
S29	94	kawai-hideki.in. and glass	US-PGPUB; USPAT	OR	ON	2009/03/18 13:13
S30	1	"6908807".pn.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:13
S31	1	"6908870".pn.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:13
S32	74	kawai-hideki.in. and glass and (chemical \$4 near4 strength\$5)	US-PGPUB; USPAT	OR	ON	2009/03/18 13:13

S33	56	501/66,67,68,69,70.cds. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 0.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 0" or "Na.sub.20" or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium)) and ((TiO2 or "TiO.sub.2" or TiO2 or "TiO.sub.2" or titania or titanium) or (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia) or ("Ln.sub.2 0.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or Y2O3 or "Y.sub.2 0.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb2O5 or "Nb.sub.2 0.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 0.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and (chemically adj strengthened)	US-PGPUB; USPAT	OR	ON	2009/03/18 13:13
S34	4	glass and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 0.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 0" or "Na.sub.20" or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium)) and (chemically adj strengthened) and substrate	EPO; JPO; DERWENT	OR	ON	2009/03/18 13:14

S35	7	glass and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 O" or "Na.sub.2O" or soda or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 O" or "K.sub.2O" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 O" or "Li.sub.2O" or Lithia or lithium)) and (chemical\$5 adj strength\$5) and substrate	EPO; JPO; DERWENT	OR	ON	2009/03/18 13:14
S36	137	501/66,67,68,69,70.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 O" or "Na.sub.2O" or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 O" or "K.sub.2O" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 O" or "Li.sub.2O" or Lithia or lithium)) and ((TiO2 or "TiO.sub.2" or TiO2 or "TiO.sub.2" or titania or titanium) or (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia) or ("Ln.sub.2 O.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2 O.sub.3" or Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2O.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or tantalum)) and (chemical\$5 near2 strength\$5)	US-PGPUB; USPAT	OR	ON	2009/03/18 13:14

S37	74	501/66,67,68,69,70.cds. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 0.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 0" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium)) and ((TiO2 or "TiO.sub.2" or TiO2 or "TiO.sub.2" or titania or titanium) or (ZrO2 or "ZrO.sub.2" or ZrO2 or "ZrO.sub.2" or zirconium or zirconia) or ("Ln.sub.2 0.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2O.sub.3" or Y2O3 or "Y.sub.2 0.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb2O5 or "Nb.sub.2 0.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 0.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and (chemical\$5 near2 strength\$5) and substrate	US-PGPUB; USPAT	OR	ON	2009/03/18 13:14
S38	81	S36 not S27	US-PGPUB; USPAT	OR	ON	2009/03/18 13:14
S39	49	S37 not S27	US-PGPUB; USPAT	OR	ON	2009/03/18 13:14
S40	32	S38 not S39	US-PGPUB; USPAT	OR	ON	2009/03/18 13:15
S41	1	"5938999".pn.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:15
S42	1	"20040018933".pn.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:15
S43	256	chemically near3 strength\$5 and glass and (substrateor disk or disc) and edge	US-PGPUB; USPAT	OR	ON	2009/03/18 13:15
S44	128	chemically near3 strength\$5 and glass and (substrateor disk or disc) and (edge near5 (inner or outer))	US-PGPUB; USPAT	OR	ON	2009/03/18 13:15
S45	2516	501/66,67,68,69,70.cds.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:17
S46	4188	428/64.1,64.2,64.3,410,426.cds.	US-PGPUB; USPAT	OR	ON	2009/03/18 13:21

S47	337	428/64,1,64,2,64,3,410,426.cds. and (SiO <sub>2</sub> or "SiO.sub.2" or SiO <sub>2</sub> or "SiO.sub.2" or silica or silicon or quartz) and (Al <sub>2</sub> O <sub>3</sub> or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al <sub>2</sub> O <sub>3</sub> or "Al.sub.2 O.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B <sub>2</sub> O <sub>3</sub> or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B <sub>2</sub> O <sub>3</sub> or "B.sub.2 O.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na <sub>2</sub> O or "Na.sub.2 O" or "Na.sub.2O" or Na <sub>2</sub> O or "Na.sub.2 O" or "Na.sub.20" or soda or sodium) or (K <sub>2</sub> O or "K.sub.2 O" or "K.sub.2O" or K <sub>2</sub> O or "K.sub.2 O" or "K.sub.20" or potash or potassium) or (Li <sub>2</sub> O or "Li.sub.2 O" or "Li.sub.2O" or Li <sub>2</sub> O or "Li.sub.2 O" or "Li.sub.20" or Lithia or lithium)) and ((TiO <sub>2</sub> or "TiO.sub.2" or TiO <sub>2</sub> or "TiO.sub.2" or titania or titanium) or (ZrO <sub>2</sub> or ""ZrO.sub.2"" or ZrO <sub>2</sub> or ""ZrO.sub.2"" or zirconium or zirconia) or ("Ln.sub.2 O.sub.3" or "Ln.sub.2 O.sub.3" or (Y <sub>2</sub> O <sub>3</sub> or "Y.sub.2 O.sub.3" or "Y.sub.2 O.sub.3" or Y <sub>2</sub> O <sub>3</sub> or "Y.sub.2 O.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb <sub>2</sub> O <sub>5</sub> or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb <sub>2</sub> O <sub>5</sub> or "Nb.sub.2 O.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta <sub>2</sub> O <sub>5</sub> or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta <sub>2</sub> O <sub>5</sub> or "Ta.sub.2 O.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and substrate	US-PGPUB; USPAT	OR	ON	2009/03/18 13:22
S48	35	428/64,1,64,2,64,3,410,426.cds. and (SiO <sub>2</sub> or "SiO.sub.2" or SiO <sub>2</sub> or "SiO.sub.2" or silica or silicon or quartz) and (Al <sub>2</sub> O <sub>3</sub> or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al <sub>2</sub> O <sub>3</sub> or "Al.sub.2 O.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B <sub>2</sub> O <sub>3</sub> or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B <sub>2</sub> O <sub>3</sub> or "B.sub.2 O.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na <sub>2</sub> O or "Na.sub.2 O" or "Na.sub.2O" or Na <sub>2</sub> O or "Na.sub.2 O" or "Na.sub.20" or soda or sodium) or (K <sub>2</sub> O or "K.sub.2 O" or "K.sub.2O" or K <sub>2</sub> O or "K.sub.2 O" or "K.sub.20" or potash or potassium) or (Li <sub>2</sub> O or "Li.sub.2 O" or "Li.sub.2O" or Li <sub>2</sub> O or "Li.sub.2 O" or "Li.sub.20" or Lithia or lithium)) and ((TiO <sub>2</sub> or "TiO.sub.2" or TiO <sub>2</sub> or "TiO.sub.2" or titania or titanium) or (ZrO <sub>2</sub> or ""ZrO.sub.2"" or ZrO <sub>2</sub> or ""ZrO.sub.2"" or zirconium or zirconia) or ("Ln.sub.2 O.sub.3" or "Ln.sub.2 O.sub.3" or (Y <sub>2</sub> O <sub>3</sub> or "Y.sub.2 O.sub.3" or "Y.sub.2 O.sub.3" or Y <sub>2</sub> O <sub>3</sub> or "Y.sub.2 O.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb <sub>2</sub> O <sub>5</sub> or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb <sub>2</sub> O <sub>5</sub> or "Nb.sub.2 O.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta <sub>2</sub> O <sub>5</sub> or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta <sub>2</sub> O <sub>5</sub> or "Ta.sub.2 O.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and substrate	US-PGPUB; USPAT	OR	ON	2009/03/18 13:22

		sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 0.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and (chemically adj strength\$5)				
S49	0	428/613.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "Si0.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 0.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 0" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium)) and ((TiO2 or "TiO.sub.2" or TiO2 or "Ti0.sub.2" or titania or titanium) or (ZrO2 or "ZrO.sub.2" or ZrO2 or "Zr0.sub.2" or zirconium or zirconia) or ("Ln.sub.2 0.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2 0.sub.3" or Y2O3 or "Y.sub.2 0.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb2O5 or "Nb.sub.2 0.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 0.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and (chemically adj strength\$5)	US-PGPUB; USPAT	OR	ON	2009/03/18 14:11
S50	53	428/613.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/18 14:11
S51	5	428/613.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "Si0.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 0.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 0" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 0" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 0" or "Li.sub.20" or Lithia or lithium))	US-PGPUB; USPAT	OR	ON	2009/03/18 14:12



S52	152	428/846.9.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 O" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 O" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 O" or "Li.sub.20" or Lithia or lithium))	US-PGPUB; USPAT	OR	ON	2009/03/18 14:14
S53	36	428/64.1,64.2,64.4,410,426.ccls. and (SiO2 or "SiO.sub.2" or SiO2 or "SiO.sub.2" or silica or silicon or quartz) and (Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al2O3 or "Al.sub.2 O.sub.3" or "Al.sub.20.sub.3" or alumina or aluminum) and (B2O3 or "B.sub.2 O.sub.3" or "B.sub.2O.sub.3" or B2O3 or "B.sub.2 O.sub.3" or "B.sub.20.sub.3" or boron or borio or boro or boron) and ((Na2O or "Na.sub.2 O" or "Na.sub.2O" or Na2O or "Na.sub.2 O" or "Na.sub.20" or sodo or soda or sodium) or (K2O or "K.sub.2 O" or "K.sub.2O" or K2O or "K.sub.2 O" or "K.sub.20" or potash or potassium) or (Li2O or "Li.sub.2 O" or "Li.sub.2O" or Li2O or "Li.sub.2 O" or "Li.sub.20" or Lithia or lithium)) and ((TiO2 or "TiO.sub.2" or TiO2 or "TiO.sub.2" or titania or titanium) or (ZrO2 or ""ZrO.sub.2"" or ZrO2 or ""ZrO.sub.2"" or zirconium or zirconia) or ("Ln.sub.2 O.sub.3" or "Ln.sub.2 O.sub.3" or (Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.2 O.sub.3" or Y2O3 or "Y.sub.2 O.sub.3" or "Y.sub.20.sub.3" or yttria or yttrium) or (Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.2O.sub.5" or Nb2O5 or "Nb.sub.2 O.sub.5" or "Nb.sub.20.sub.5" or niobia or niobium) or (Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.2O.sub.5" or Ta2O5 or "Ta.sub.2 O.sub.5" or "Ta.sub.20.sub.5" or tantalum)) and (chemically adj strength\$5)	US-PGPUB; USPAT	OR	ON	2009/03/18 14:17
S54	63	S52 not "501"\$.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/18 14:18
S55	194	428/846.9.ccls.	US-PGPUB; USPAT	OR	ON	2009/03/18 14:19

S56	94	428/846.9.ccls. and (SiO <sub>2</sub> or "SiO.sub.2" or SiO <sub>2</sub> or "SiO.sub.2" or silica or silicon or quartz) and (Al <sub>2</sub> O <sub>3</sub> or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or Al <sub>2</sub> O <sub>3</sub> or "Al.sub.2 O.sub.3" or "Al.sub.2O.sub.3" or alumina or aluminum) and ((Na <sub>2</sub> O or "Na.sub.2 O" or "Na.sub.2O" or Na <sub>2</sub> O or "Na.sub.2 O" or "Na.sub.2O" or sodo or soda or sodium) or (K <sub>2</sub> O or "K.sub.2 O" or "K.sub.2O" or K <sub>2</sub> O or "K.sub.2 O" or "K.sub.2O" or potash or potassium) or (Li <sub>2</sub> O or "Li.sub.2 O" or "Li.sub.2O" or Li <sub>2</sub> O or "Li.sub.2 O" or "Li.sub.2O" or Lithia or lithium)) and (chemical\$5 near2 strength\$5)	US-PGPUB; USPAT	OR	ON	2009/03/18 14:20
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